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translation

PATENT COOPERATION TREATY

PCT/JP2003/003757



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference F1030086WO00	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP2003/003757	International filing date (day/month/year) 26 March 2003 (26.03.2003)	Priority date (day/month/year) 28 March 2002 (28.03.2002)
International Patent Classification (IPC) or national classification and IPC G03B 21/14, 21/16		
Applicant SANYO ELECTRIC CO., LTD.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 6 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 24 September 2003 (24.09.2003)	Date of completion of this report 23 June 2004 (23.06.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

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I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed
- ☒ the description:
pages _____, 1, 4-8 _____, as originally filed
pages _____, filed with the demand
pages _____, 2, 3, 3/1 _____, filed with the letter of _____ 19 March 2004 (19.03.2004)
- ☒ the claims:
pages _____, as originally filed
pages _____, as amended (together with any statement under Article 19
pages _____, filed with the demand
pages _____, 1-13 _____, filed with the letter of _____ 19 March 2004 (19.03.2004)
- ☒ the drawings:
pages _____, 1-7 _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-13	YES
	Claims		NO
Inventive step (IS)	Claims	1-7	YES
	Claims	8-13	NO
Industrial applicability (IA)	Claims	1-13	YES
	Claims		NO

2. Citations and explanations

The constitution described in claims 1 to 7 for a projection-type image display device wherein light emitted from a light source is modulated using a light bulb and projected is characterized in that an air-blowing device is provided which ionizes air and molecules in the air using an electrode on one side and causes the ions generated thereby to move to an electrode on the other side, thereby causing air motion, and ultraviolet rays emitted from the aforementioned light source are spectrally divided and made to be incident upon air blown by the aforementioned air-blowing device, is not disclosed in any of the documents cited in the international search report, nor is it an obvious constitution.

Document JP 2001-330890 A (Matsushita Electric Industrial Co., Ltd.) cited in the international search report discloses a projection-type image display device equipped with a reflector having a cutout and with an air-blowing device, wherein light emitted from a light source is modulated using a light bulb and projected; document JP 10-241556 A (The Furukawa Electric Co., Ltd.) cited in the international search report discloses an image display device having electrodes arranged in a plurality of rows and being cooled by air motion generated by attracting to

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electrodes on one side air that has been ionized by corona discharge at electrodes on the other side; and document JP 8-238441 A (Kansei Corp.) cited in the international search report discloses an electrode on one side for generating ion wind, said electrode comprising a metal plate having a plurality of pointed parts on an edge part; and thus, claims 8 to 13 do not involve an inventive step.